SATTRACKER DIGITAL SATELLITE RECEIVER

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1. GENERAL INTRODUCTION

Sattracker Satellite Receiver is a satellite receiver that is prepared as appropriate for conditions of Turkey. You can set up dish antenna as most sensitive and as fastest and you can search for satellite automaticly or manuel by Sattracker.

While Sattracker is being designed, all requirements of user are considered and it is integrated with quick charge system and durable batterries . It is possible to set up about 15-20 pcs. dish diennas in only one charge. By thinking that this is not enough,too. , quick charge system is designed as it will make filling at most in 2 hours. Sattracker is equipped with some warning systems .You can see battery status by battert status bar on the screen. If the battery is reduced as it ca not be used , "**Poor Battery**" will write on the screen and then vocal warning is heard.In this case, you must charge device till battery is full. Sattracker remains at most 5 minutes on measurement menus. After five minutes, it returns to main menu automatically and battery saving is supplied by this way . If there is something wrong or short circuit on LNB or cable while measurement time, then "**short circuit"** is seen on the screen and the device protects itself . So, any breaking of the device is prevented by this way .

1.KEY SET AND SPECIALITIES :

Sattracker key set is designed as comprehensible and it is with easy expression. Four keys at the bottom are with multi fonction

1- **POWER BUTTON** : It is for switching on and switching off the device.(Important ! Device is charged only when it is off.) When device is on , It wont be charged even if charge adaptor is tied .
2- **OK BUTTON TO UP** : It supplies menu passing and transponder passing on manuel searching.
3- **OK/MENU BUTTON :** This key is for selection and approval.
4- **OK BUTTON TO DOWN :** It supplies menu passing and transponder passing on manuel searching.
5- **SAT/F1 BUTTON** : It is used for changing satellite on a spectrum menu or any researching.
6- **TP/F2 BUTTON** : It is used for changing transponder on any research or on spectrum menu. It is also used in package control menu for checking signal and levels as bar.
7- **DISEC / F3 BUTTON** : : It is used for changing DiseqC on a spectrum menu or any researching. (DiseqC A-B-C-D Closed)

8- **LNB / F4 BUTTON** : : It is used for changing lnb Type on a spectrum menu or any researching. (Universal Lnb-Mdu-Mdu2- C band and user)

9- **LNB IN** : Lnb Entrance

10- **12 V** : Charge Entrance

11- **CHARGE** : Warning Led that shows charge status (It is on just charging.)

3.. MENUS

Menus of Sattracker is quite easy and useful . Tour between menus is made by using Up-Down and Ok/Menu buttons . There are five menus in this device.

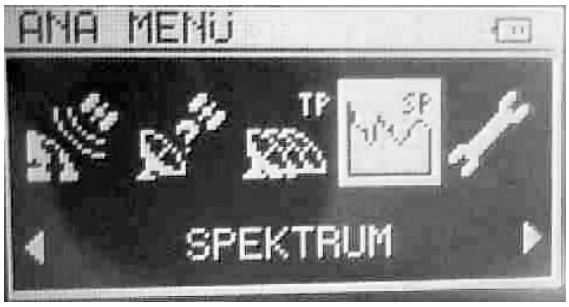
1 . **MANUAL RESEARCH** : Research is made by selecting satellite and transponder in this menu. Ok/Menu approval key is used to enter manual research menu . Satellite name is seen on the top after you enter to menu. Transporder name and frequency seem on the screen . You can use **Down** or **Up** keys to change transporder. Tp button is used for same purpose,too. Satellite can be changed by **Sat/F1** button. You can set up DiseqC by **Diseq/F3** key or you can change type of Lnb by **Lnb/F4** key **.** You can go out of this menu by **Ok/Menu** key.

2- FINDING SATELLITE : Device is on position to find satellite automatically in this menu. . **Ok/Menu** key is used to enter menu . When you change direction of your dish antenna, you will see on the screen name of the satellite which is found by your device. It is an ideal menu to make adjustment roughly.Satellite can be changed by **Sat/F1** key, DiseqC adjustment can be made by **Diseq/F3** key or you can change type of Lnb by **Lnb/F4** key. **Ok/Menu** key is used for exit from the menu.

3 – PACKAGE CONTROL :

In this menu , All frequency of satellite that is set up is seen on the screen with quality values as %. As first , 5 transponders are monitorized . Second 5 transponders can be monitorized by **up ok** key (10 transponders are available for each satellite in memory of the device. If it is necessary to see signal and quality not as percantage, if you want it as bar, Tp/F2 key is used. **Ok/Menu** key is used for exit from the menu.

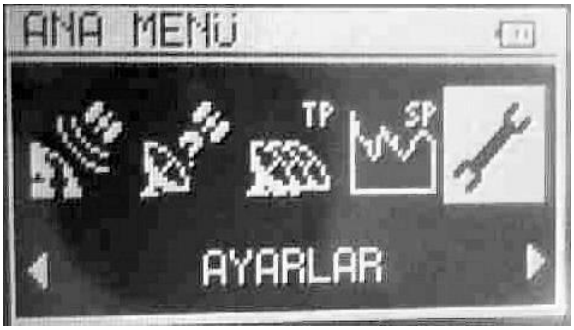
4- SPECTRUM : In this menu , all transponders in the satellite are seen as graphics.22khz can be switched on and switched off by **Tp/F2** key. DiseqC selection is made by **Diseq/F3** key. 13/18 (V-H) selection is made by **Lnb** key.Satellite name and signal quality is monitarized by pressing Sat/F1 button **Ok/Menu** key is used for exit from the menu.



5 – SETTINGS : Ok/Menu key is used to enter this menu.There are 4 setting sub-menus.

LANGUAGE SELECTION
ANTENNA SELECTION
SOUND ON/OFF
CONTRACT SETTING

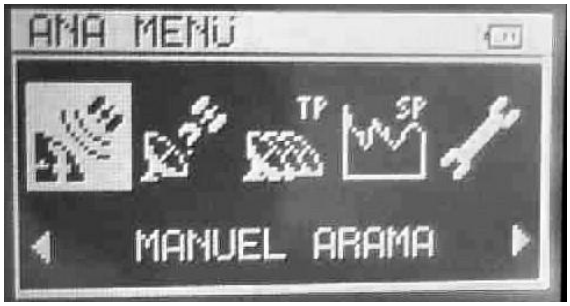
You can come to sub menus By **Up** and **Down** ok buttons and fit settings are selected by Ok/Menu button. **Ok/Menu** key is used for exit from the menu.



4.GENERAL USAGE

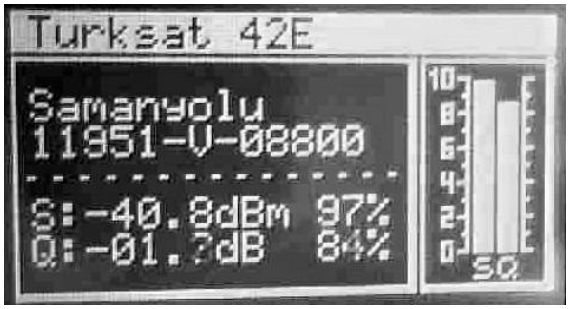
It is easier to set up dish antenna by Sattracker. As an example of a basic setting type :

Firstly , set up dish antenna on an appropriate direction with satellite .Connect appropriate LNB to antenna and connect Lnb cable of your Sattracker device to IN connector with F connector. Switch on Sattracker system by pressing on-off key. Enter Manuel Search by pressing Ok/Menu from main menu. Select satellite that you want to find in this menu.



Then, select Lnb type by Lnb/F4 .(System begins to run as standart on Universal Lnb)
You will need this menu only when you use another Lnb type .Please adjust DiseqC port if Diseq/F3 is not affixed DiseqC.

We selected satellite , we adjusted Lnb type , we setted up DiseqC and now turn is for transponder selection.

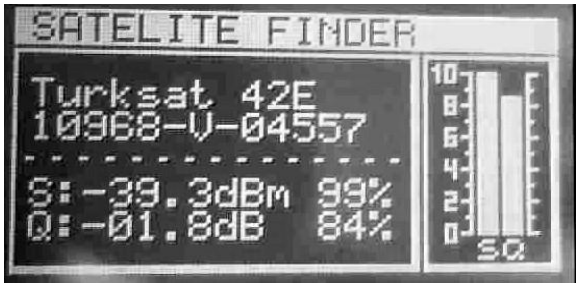


Select one transponder by Up/Down Ok or Tp/F1 key.
Now time is to adjust dish antenna. Turn dish antenna right-left and up-down and bring to the highest level of S and Q bars . When signal and level is higher and higher , sound of the system will periodicly increase and make voiced announcement.When you set up signal and level as the highest ,values on the left of the screen **S:-40.8dBm 97%** and **Q:-01.23dBm 84%** are important for us. On the side where **Q:-01.23dBm 84%** is written, your settings will be as well as when **dBm** is close to zero **.** Continue setting operation with caring these subjects and checking minimum first 4 transponders in the satellite.After these opeariatons,it means that you finish dish antenna settings.

6. FINDING SATELLITE

Sattracker digital satellite receiver has function to find satellite automatically.Even amateur users can set up antenna easily by this speciality.Enter "**Find Satellite**" in main menu . Turn

antenna to right-left and up-down slowly with connection Lnb to Sattracker.
Name of satellite and signal-quality levels are monitarized if any signal comes from any satellite. Related to signal and quality level, sound comes from speaker of device. By means of this high quality signal sound, it can adjust according to intensity of sound even without looking at screen . In the places where signal is low, sound comes once per second and when signal increases , sound comes less and BİP sounds come frequently.

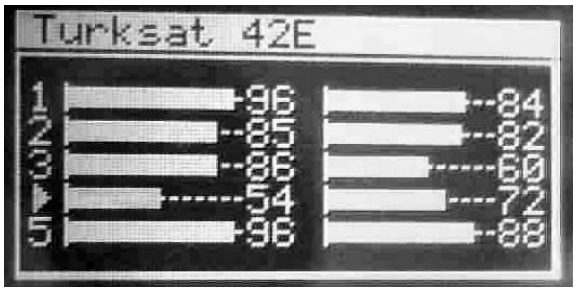


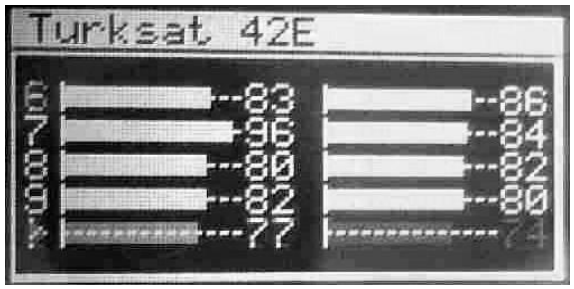
Ok/Menu key is used for exit from the menu

7. PACKAGE CONTROL

It is very easy to set up Sattracker Digital Satellite Receiver with Multisdwitch (switchboard) When switcboard is set up ,it is necessary to check all of upper band, 22Khz lower band and 22 Khz upper band . Generally ,it is necessary to show around menus and look at each for checking these bands .This problem is solved on Sattracker Digital Satellite Receiver . Information of Signal and quality information of 5 transponders are monitarized on the screen.

Information of 5 transponders in the memory is seen on the screen in the entrance of packing control. To see other five ones, it is necessary to press **Up OK** Key . It is enough to press **T/F2** key when you want to see transponder information as **BAR** , not percentage. It is necessary to press **Up Ok** key again to see second 5 transponders.



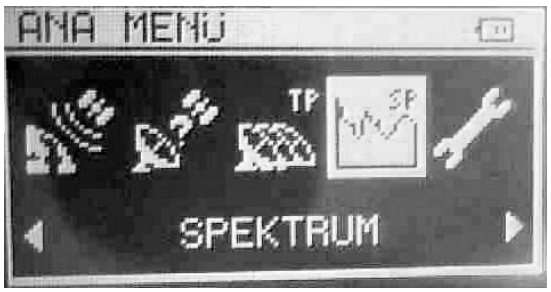


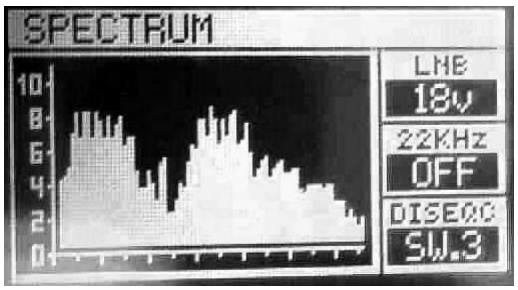
Ok/Menu key is used for exit from the menu

8.SPECTRUM :

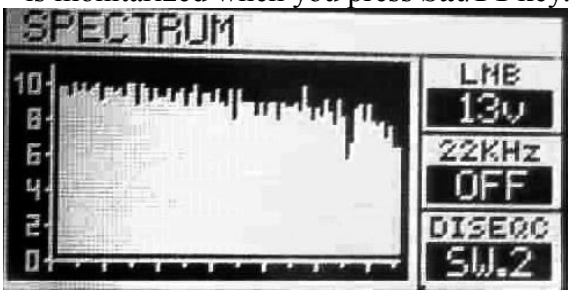
Sattracker Digital Satellite Receiver has a speciality of Spectrum analyse .You can have idea about density of satellite and you can observe satellite traffic as graphical. First satellite

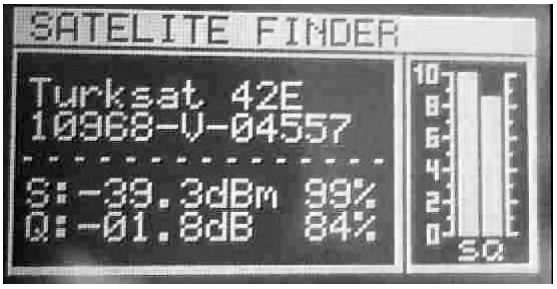
finders devices had only spectrum speciality. Because , all publications were analog 7-8 years ago.Signals in the spectrum menu, we can see as analog not digital.
To see analog signals belong to which satellite that you see in this menu ,it is enough to press Sat/F1 key .When you press Sat/F1 key on the screen, signal and quality rate and ber values will be seen.





Function keys are used to change values of 22KHZ,LNB and DiseqC that is seen on the left menu .22khz is open and closed by **Tp/F2** key.DiseqC selection is made by **Diseq/F3 key.**13/18 (V-H) selection can be made by **Lnb** key. Satellite name and signal quality rate is monitarized when you press **Sat/F1** key.

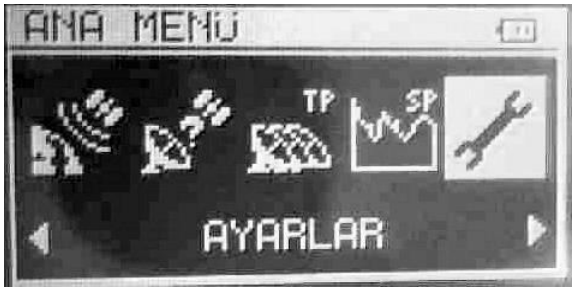




Ok/Menu key is used for exit from the menu

9. SETTINGS

In this menu ,you can arrange language selection of your device, volume up-down, dish antenna and contrast settings how you want.



Required setting is selected by **Ok/Menu** key and sub-menu is reached by **up** and **down** ok buttons.

1- Language : You can use English or Turkish language in this section.

2- Antenna : Diameter of dish antenna 45 cm ,60cm ,90 cm , 120 cm,150 cm and 200 cm are available.It is advised to make your selection according to diameter of antenna. For example, you will set up 90 cm dish antenna ,but you select 45 cm from menu. In this case, your signal and quality rates in satellite finding and spectrum menus ,will be higher than normal. If you select 200 cm selection when you set up 90 cm dish antenna, this time signal and quality values will be much lower on spectrum menus. If you can not see wanted quality and signal In places where very long cables are used,you can make trial by changing diameter of dish antenna from this menu.

3- Sound : Your device will sound out according to signal and quality rate while it is looking for satellite . This is a big comfortness for setter. You can adjust volume from this menu. If you switch off all sounds, all sounds will be closed except warning sounds.

4- Contrast : 128x64 Lcd Indicator is used on the device. You can adjust contrast settings as your eyes look at screen comfortably.

Ok/Menu key is used for exit from the menu

10 .CHARGE

You can charge battery by another adaptor with 12V 1.3 A Charge tool when acumulator of your device finishes.You can charge your device comfortably
by a standart Power source (12 V 13A) . Charge period is approximately 2 hours.
When you put device on charge, charge light on the front panel will be red. Light will be yellow when it starts to be filled and at the end it is green. If the light on the front panel is red , battery is free .If it is yellow or orange, battery is half-full. If it is green or a tone of green ,battery is full. It is necessarry to make operation of charcing and using battery at least 2-3 times for using it productive.This is necessary to have maximum performance by full reaction of chemical inside accumulator.Because of this
You must keep it in charge at least 12 hours on the first time you buy.You can check battery status by battery indicator in main menu.If battery is on a level that can not be used , on the screen you will see message "**Poor Battery**" and got warning sound.You must put battery on charge in this case

Entrance is place that 12 writes.

11 .TECHNICAL SPECIFICATIONS :

Battery	12V 1.3 A Dry Type Accumulator
Supported LNBs	Üniversal , Mdu , Mdu2, C Band and user known 1 pcs. Lnb
LNB Signal Level	-65dBm / -25dBm
LNB Entrance Soket	F Female Type
LNB Feeding	13/18V, Max 600mA
Upper Band Selecter	0/22KHz 1Vpp modulation
Short Curcuit Protection	YES
LNB Entrance Empedance	75Ohm
Symbol Rate	2000 – 45000 Ksembol/Second
Frequency Gap	950-2150 MHz
Polarization Selection	13/18 V (LNB, DiseqC Switch)
DiseqC (Multiswitch) Support	YES
Band Selection	0/22KHz (LNB, DiseqC Switch)
Satellite Memory	16 pcs.satellite
Tp Number per satellite	10 pcs Transponders (Totally 160 Transponders)
Antenna Diameter Selection	YES (45cm,60cm,90cm,120cm,150cm ve 200cm)
PC Connection	Usb 1.1 and Usb 2.0
Language	2 units (English and Turkish)
Charge Adaptor	DC 12v 1.3 A

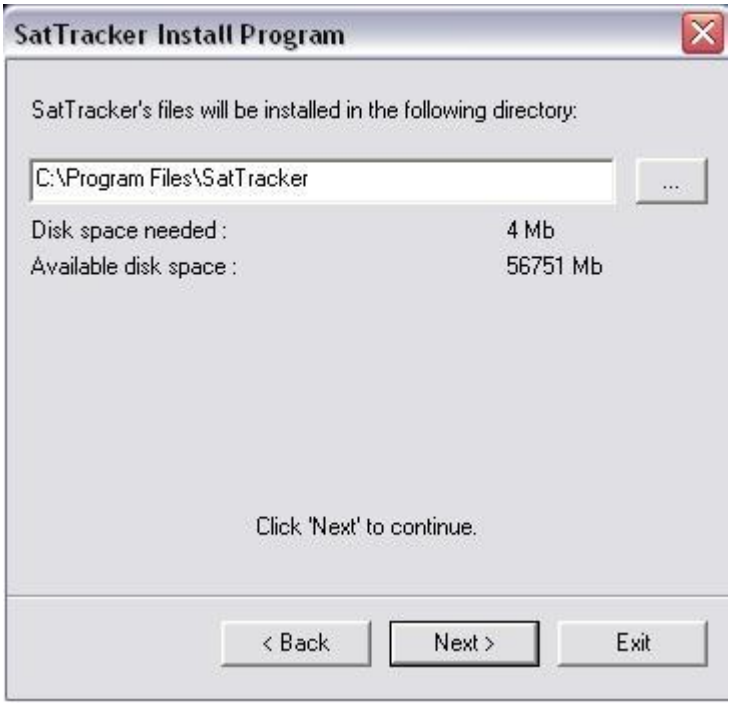
PC CONNECTION AND SOFTWARE

Satellite and Transponder list can become current by help of computer inside Sattracker Digital Satellite Receiver . You can describe new type Lnb values to Lnb menu. One Pc that has USB connection and Sattracker are enough for PC loader software. Firstly , It is enough to load Sattracker Pc Software to your computer.Then it is enough to load USB Drivers to computer.

A – LOADING OF PC PROGRAMME :

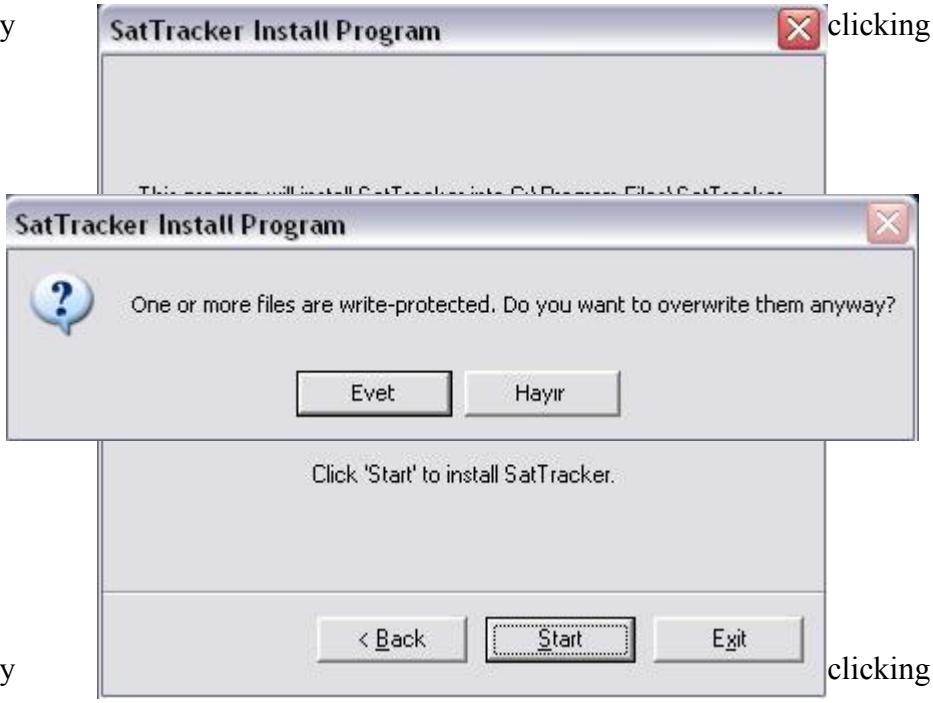
Put Sattracker Programme Cd on your computer .Start loading by clicking double on Sattracker.exe programme.

Continue by
SatTracker Install Program
Welcome to the SatTracker Install program.
This program allows you to install SatTracker on your hard drive.
It is strongly recommended that before proceeding, you ensure that no other Windows programs are running.
If you do not wish to install SatTracker, click 'Exit' now, otherwise click 'Next' to continue.
< Back
Next >
Exit
clicking “next” button.

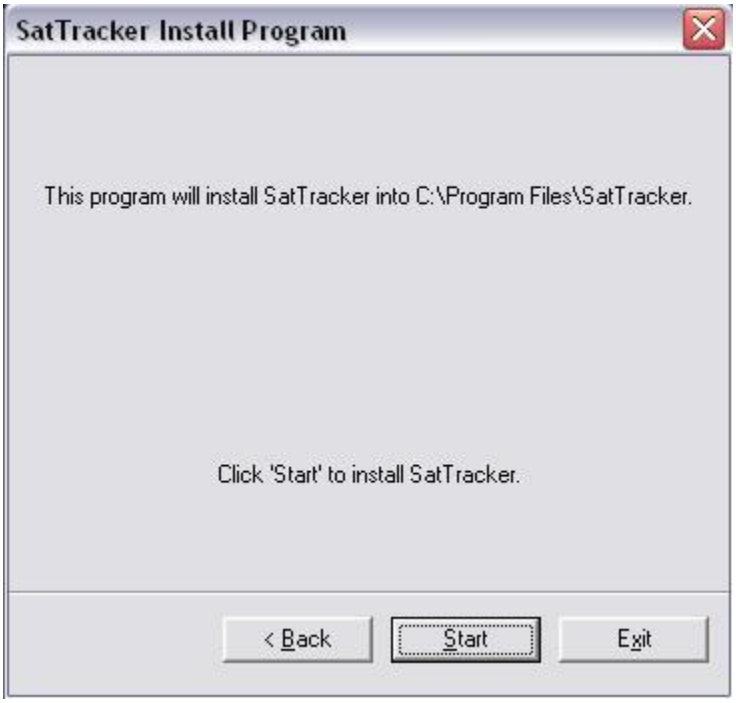


Continue by clicking “next” button.

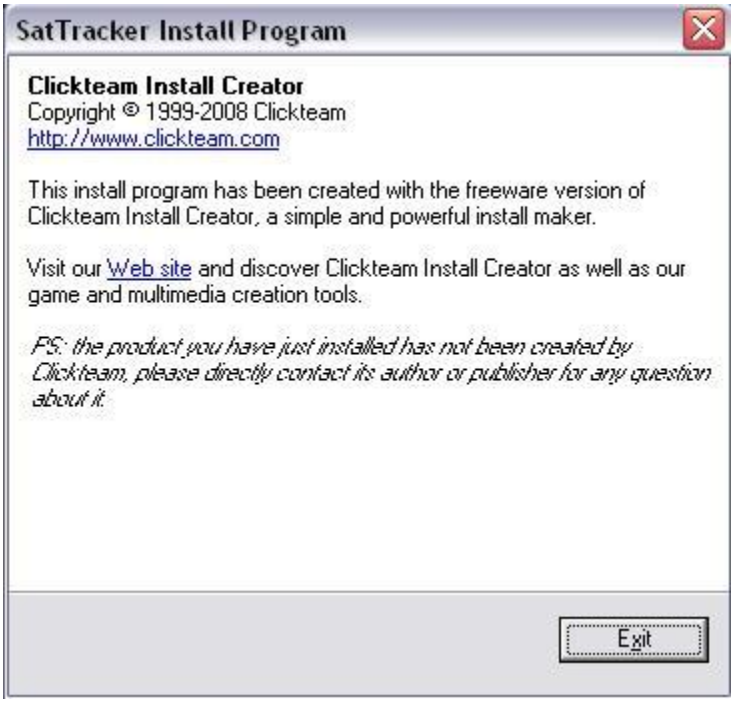
Continue by clicking “start” button.



Continue by clicking “yes” button.



Continue by clicking “next” button.


SatTracker Install Program
Clickteam Install Creator
Copyright © 1999-2008 Clickteam
http://www.clickteam.com
This install program has been created with the freeware version of Clickteam Install Creator, a simple and powerful install maker.
Visit our Web site and discover Clickteam Install Creator as well as our game and multimedia creation tools.
PS: the product you have just installed has not been created by Clickteam, please directly contact its author or publisher for any question about it.
Exit

Finish loading by clicking on “exit”

Sattracker Pc software has been loaded on your computer anymore. You will see symbol of Sattracker on desktop.

You can start to work with programme by clicking this ickon twice. (Usb Driver must be loaded on your computer to make programme run.)

B- LOADING USB DRIVER :

Switch on Sattracker Digital Satellite Receiver. Device must be on main menu. Put usb cable on the computer and the device. You will see following screen when connection is ok.

Yeni Donanım Bulma Sihirbazı
Yeni Donanım Bulundu Sihirbazı'na Hoş geldiniz
Bu sihirbaz aşağıdaki aygıtın yazılımını yüklemenizi sağlar:
USB <-> Serial Cable
Donanımınızla birlikte bir yükleme CD'si ya da disketi verildiyse, şimdi takın.
Sihirbazın ne yapmasını istiyorsunuz?
Yazılımı otomatik olarak yükle (önerilen)
Listeden ya da belirli bir konumdan yükle (Gelişmiş)
Devam etmek için İleri'yi tıklatın.
< Geri
İleri >
İptal

Mark selection “Load from the list or from any location”**”** and click on next .

Mark" Look for best driver in this situation" .Click on "Glance" button and mark **C:/Program_Files/Sattracker_** file .Then click on "Ok" Buton.Then Click on "Next" and you will see following screen.

Yeni Donanım Bulma Sihirbazı
Sihirbaz yazılımı yüklerken bekleyin...
Digital Satmeter
Sisteminizin ileride geri yüklenmesi gerekebileceği için sistem geri yükleme noktası ayarlanıp dosyaların yedeği alınıyor.
< Geri
İleri >
İptal

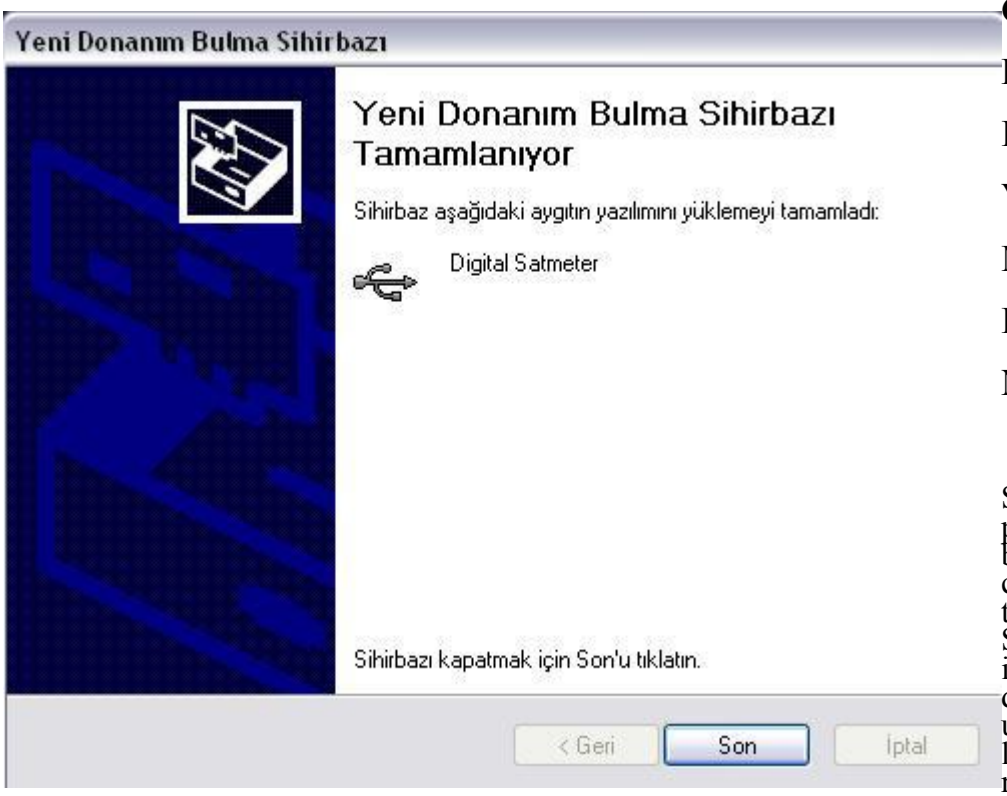
Click on “Continue” Button .Then wait for loading of driver.

Driver will be load and following screen will be on monitor.

Yeni Donanım Bulma Sihirbazı
Sihirbaz yazılımı yüklerken bekleyin...
Digital Satmeter
Sisteminizin ileride geri yüklenmesi gerekebileceği için sistem geri yükleme noktası ayarlanıp dosyaların yedeği alınıyor.
< Geri
İleri >
İptal

Now,usb driver is load and you can make it current by working on Sattracker programme.

R



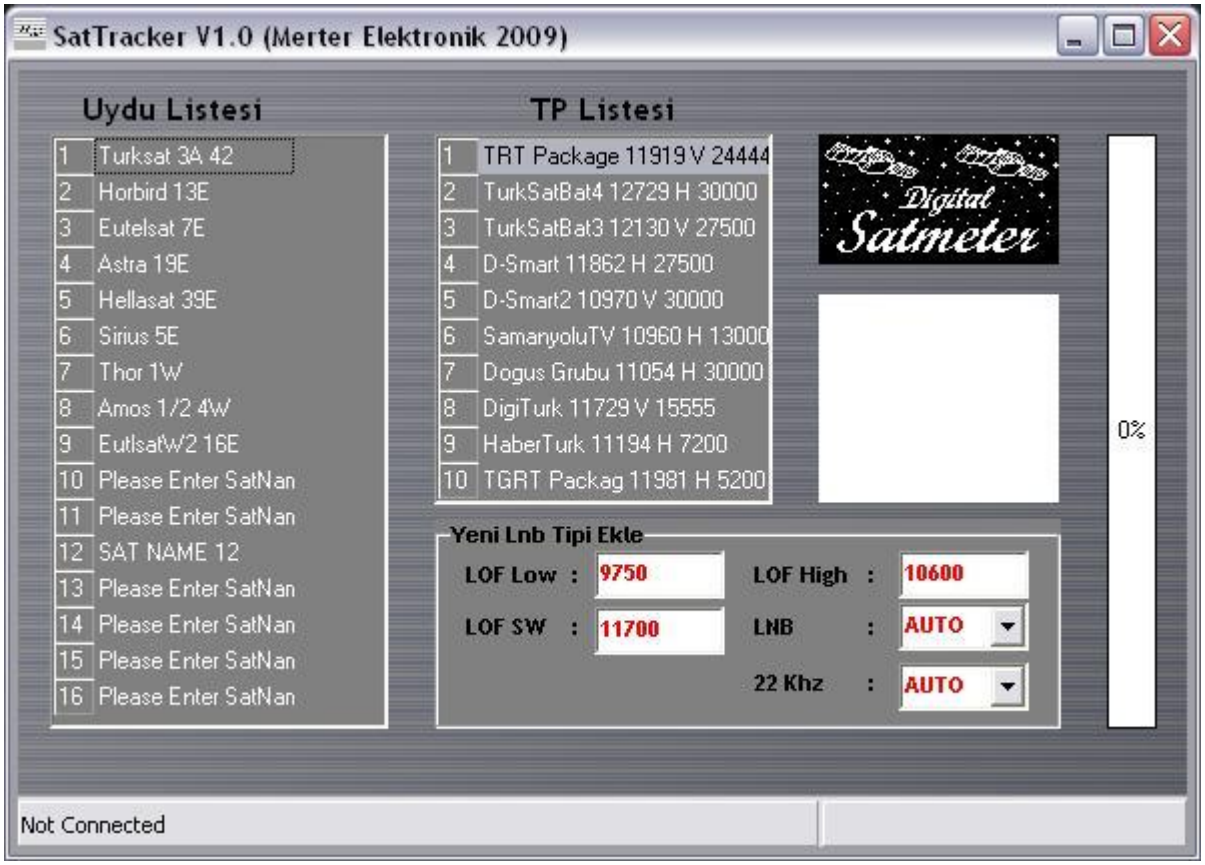
C..SATTRACKER PC YAZILIMININ KULLANIMI

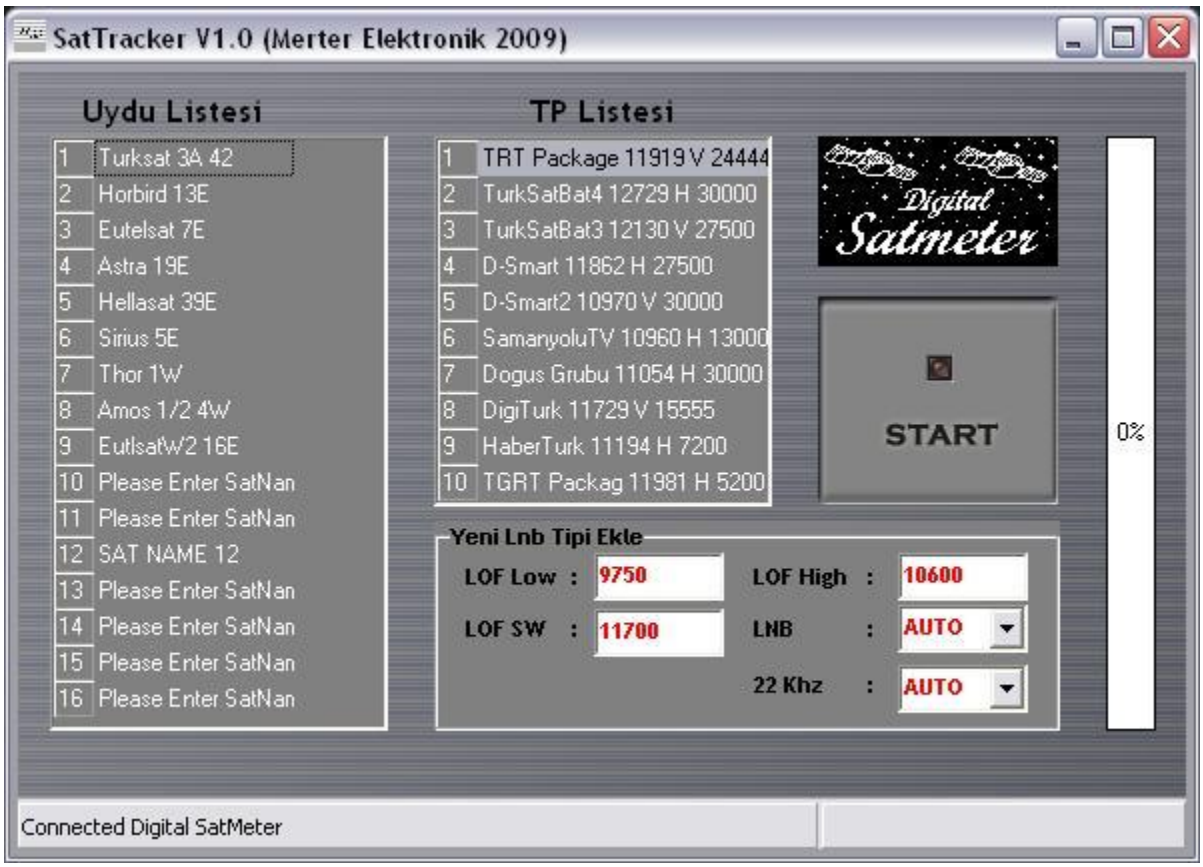
e

Start programm by clicking twice on Sattracker ikon on desktop .If usd driver loaded rightly ,

is

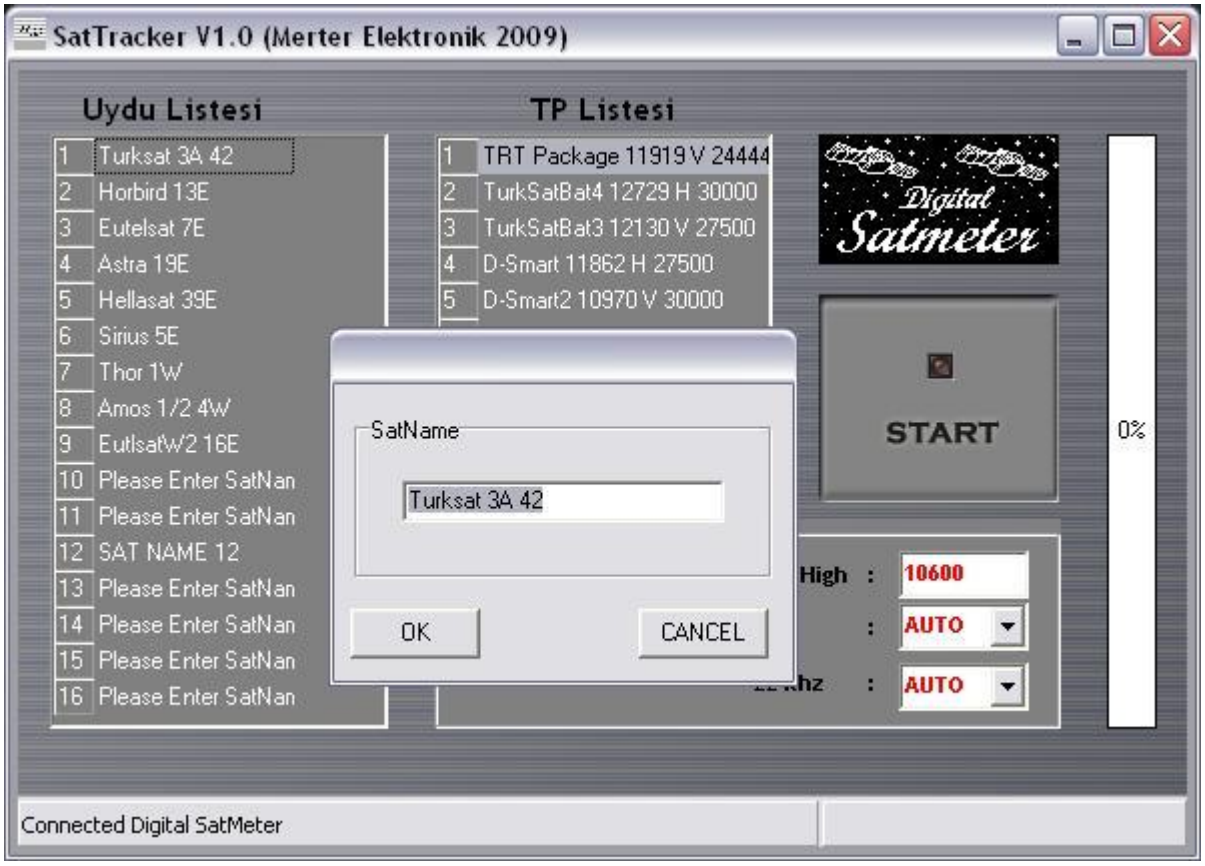
you will see “Connected Digital Satmeter” writing at the bottom part.
At the same time , if connection is ok , you will see “START” buton as active in the programme . If there is something wrong or usb driver is not loaded, you will see “Not Connected” message. (In this case check your usb cable and switching on of your device.





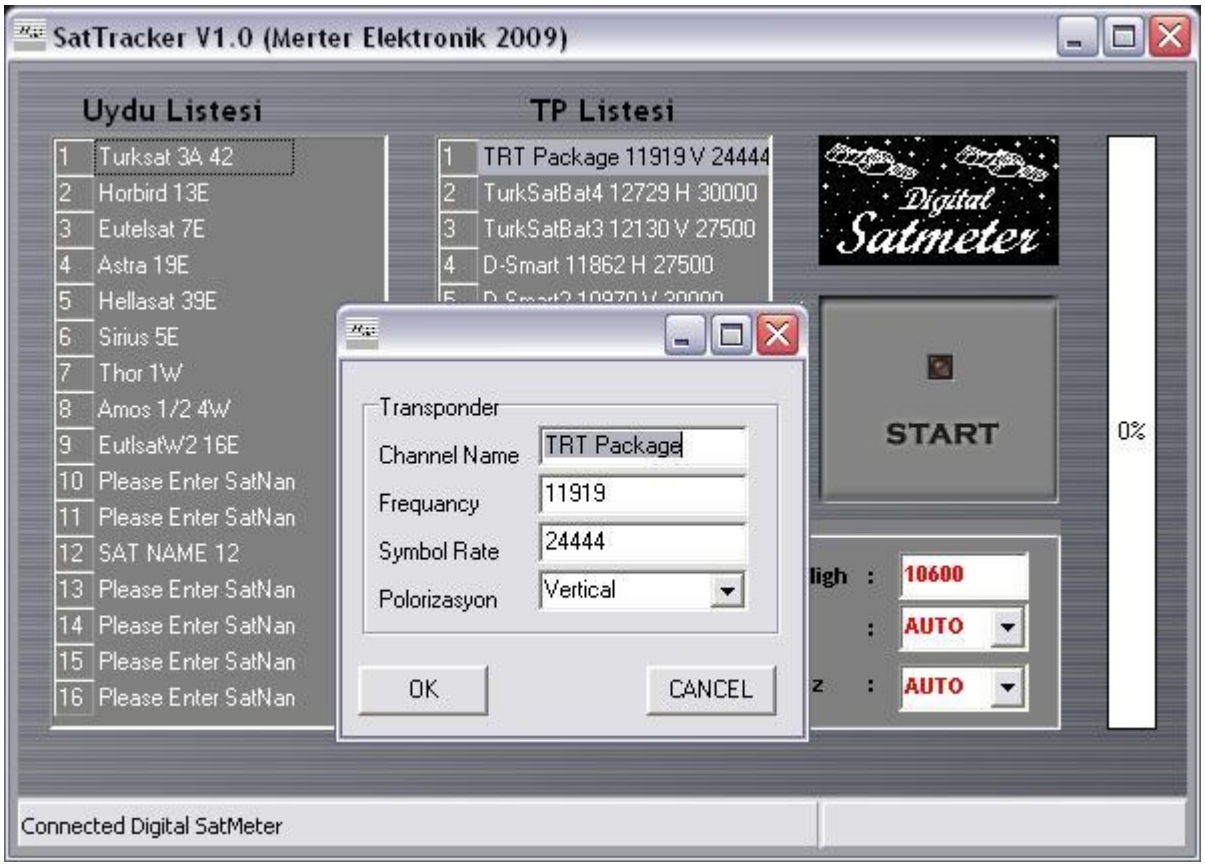
As you can see ont the figure , “Connected Digital Satmeter” and “Start” buttons are active. Programme is ready to be used. “Satellite list” on the left side, “Transponder List” in the middle “ New Lnb Type Add” is at te bottom.

If you want to make satellate name current , clink on satellate name twice and a new window will be open. You can write satellate name here.



Click on “OK” to finish operation . To cancel ,click on “CANCEL”.

Click on transponder twice if you want to make satellate name .In this case a new window will be opened. New Transponder information can be written here.



Click on “OK” to finish operation . To cancel ,click on “CANCEL”.

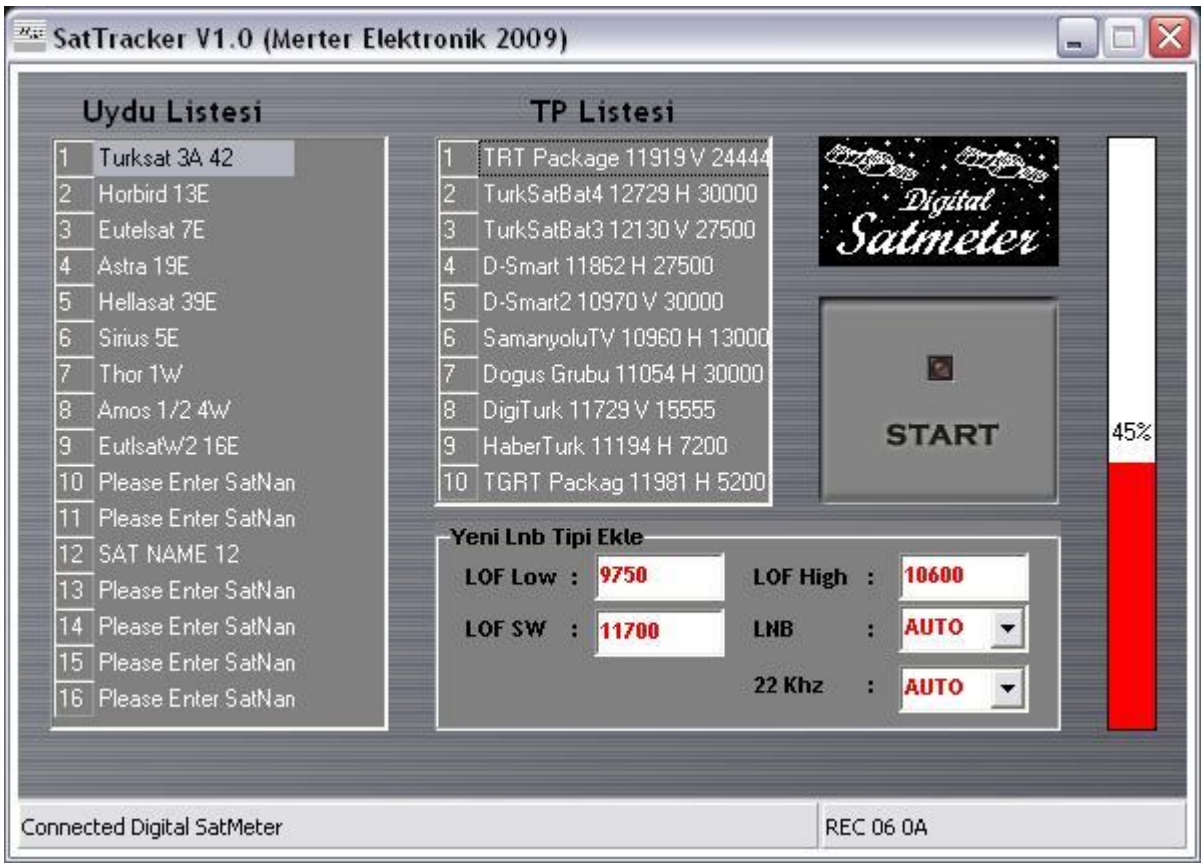
When a new type LNB is in the market, you can define this to your Sattracker Digital Satellite receiver . You must use “ Add new LNB type” to maket his operation

When you enter Local Oscillator information that is written on LNB, values on Lnb menu that writes “USER” will be changed according to LNB.

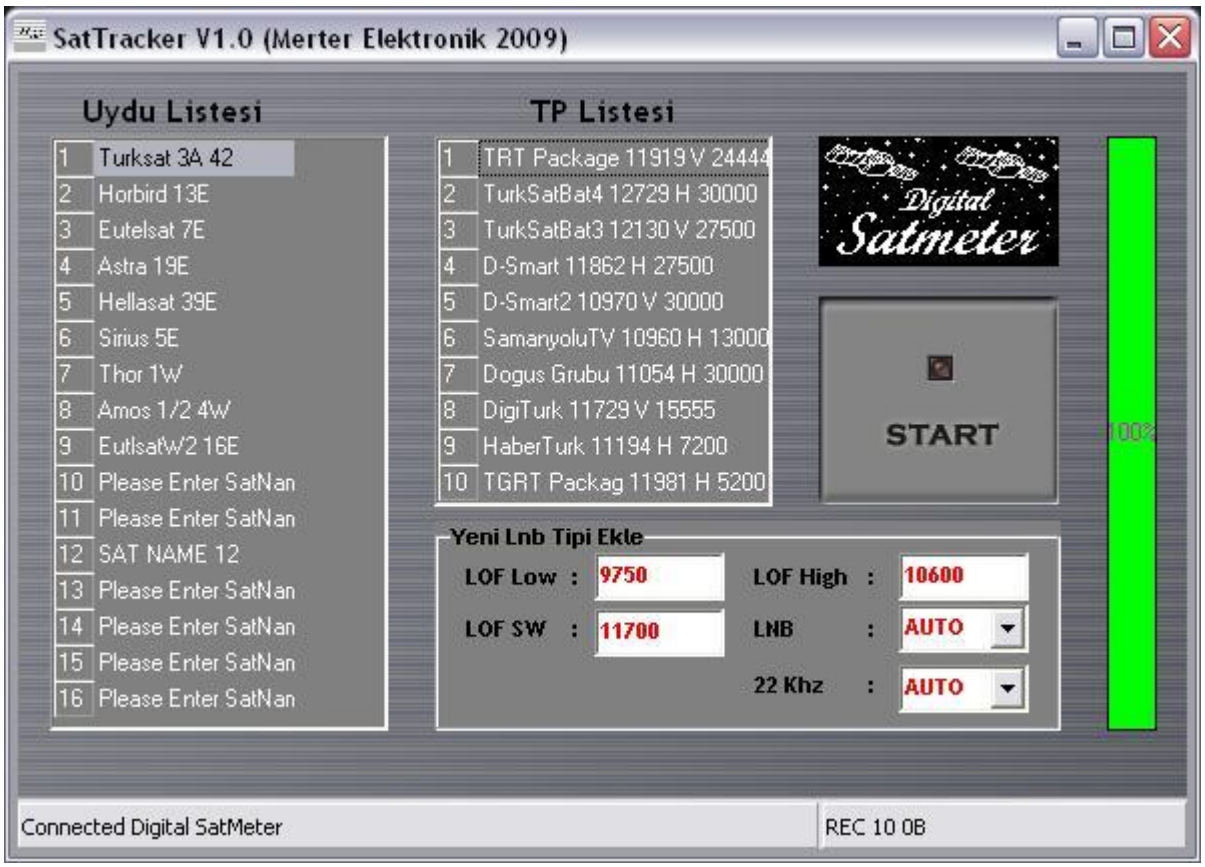
Click on “start” button to load changes to Sattracker device after all these operations are ok.

You will see loading operation

on the left side of PC programme.



Level bar on the left will be green when loading operation is finished.



All operations have been finished for loading . You can take Usd connections off..
Sattracker Digital Satellite Receiver is ready to use.